

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/175,713DATE: 11/03/98
TIME: 15:35:12

INPUT SET: S29599.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

1
2
3 (1) General Information:
4
5 (i) APPLICANT: Herrmann, Stephen H.
6 Lu, Zhijian
7 McCoy, John M.
8 Swanberg, Stephen L.
9 Walker, Bruce
10 Yang, Otto
11
12 (ii) TITLE OF INVENTION: CHEMOKINES WITH AMINO-TERMINAL MODIFICATIONS
13
14 (iii) NUMBER OF SEQUENCES: 15
15
16 (iv) CORRESPONDENCE ADDRESS:
17 (A) ADDRESSEE: Genetics Institute, Inc.
18 (B) STREET: 87 CambridgePark Drive
19 (C) CITY: Cambridge
20 (D) STATE: MA
21 (E) COUNTRY: U.S.A.
22 (F) ZIP: 02140
23
24 (v) COMPUTER READABLE FORM:
25 (A) MEDIUM TYPE: Floppy disk
26 (B) COMPUTER: IBM PC compatible
27 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
28 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
29
30 (vi) CURRENT APPLICATION DATA:
31 (A) APPLICATION NUMBER:
32 (B) FILING DATE:
33 (C) CLASSIFICATION:
34
35 (viii) ATTORNEY/AGENT INFORMATION:
36 (A) NAME: Sprunger, Suzanne A.
37 (B) REGISTRATION NUMBER: 41,323
38
39 (ix) TELECOMMUNICATION INFORMATION:
40 (A) TELEPHONE: (617) 498-8284
41 (B) TELEFAX: (617) 876-5851
42
43
44 (2) INFORMATION FOR SEQ ID NO:1:
45
46 (i) SEQUENCE CHARACTERISTICS:

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47 (A) LENGTH: 89 amino acids
48 (B) TYPE: amino acid
49 (C) STRANDEDNESS:
50 (D) TOPOLOGY: linear
51

52 (ii) MOLECULE TYPE: protein
53
54
55
56

57 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
58

59 Met Asn Ala Lys Val Val Val Val Leu Val Leu Val Leu Thr Ala Leu
60 1 5 10 15

61
62 Cys Leu Ser Asp Gly Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys
63 20 25 30
64

65 Arg Phe Phe Glu Ser His Val Ala Arg Ala Asn Val Lys His Leu Lys
66 35 40 45
67

68 Ile Leu Asn Thr Pro Asn Cys Ala Leu Gln Ile Val Ala Arg Leu Lys
69 50 55 60
70

71 Asn Asn Asn Arg Gln Val Cys Ile Asp Pro Lys Leu Lys Trp Ile Gln
72 65 70 75 80
73

74 Glu Tyr Leu Glu Lys Ala Leu Asn Lys
75 85
76

77 (2) INFORMATION FOR SEQ ID NO:2:
78

79 (i) SEQUENCE CHARACTERISTICS:
80 (A) LENGTH: 93 amino acids
81 (B) TYPE: amino acid
82 (C) STRANDEDNESS:
83 (D) TOPOLOGY: linear
84

85 (ii) MOLECULE TYPE: protein
86
87
88
89

90 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:
91

92 Met Asn Ala Lys Val Val Val Val Leu Val Leu Val Leu Thr Ala Leu
93 1 5 10 15
94

95 Cys Leu Ser Asp Gly Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys
96 20 25 30
97

98 Arg Phe Phe Glu Ser His Val Ala Arg Ala Asn Val Lys His Leu Lys
99 35 40 45

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100
101 Ile Leu Asn Thr Pro Asn Cys Ala Leu Gln Ile Val Ala Arg Leu Lys
102 50 55 60
103
104 Asn Asn Asn Arg Gln Val Cys Ile Asp Pro Lys Leu Lys Trp Ile Gln
105 65 70 75 80
106
107 Glu Tyr Leu Glu Lys Ala Leu Asn Lys Arg Phe Lys Met
108 85 90
109

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1856 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

125 TCTCCGTCAG CCGCATTGCC CGCTCGGCGT CCGGCCCCCG ACCCGTGCTC GTCCGCCCCG 60
126
127 CCGCCCCGCC GCGCGCGCCA TGAACGCCAA GGTGCTGGTC GTGCTGGTCC TCGTGCTGAC 120
128
129 CGCGCTCTGC CTCAGCGACG GGAAGCCCGT CAGCCTGAGC TACAGATGCC CATGCCGATT 180
130
131 CTTGAAAAGC CATGTTGCCA GAGCCAACGT CAAGCATCTC AAAATTCTCA AACTCCAAA 240
132
133 CTGTGCCCTT CAGATTGTAG CCCGGCTGAA GAACAACAAC AGACAAGTGT GCATTGACCC 300
134
135 GAAGCTAAAG TGGATTCAGG AGTACCTGGA GAAAGCTTTA AACAAGTAAG CACAACAGCC 360
136
137 AAAAAGGACT TTCCGCTAGA CCCACTCGAG GAAACTAAA ACCTTGTGAG AGATGAAAGG 420
138
139 GCAAAGACGT GGGGGAGGGG GCCTTAACCA TGAGGACCAG GTGTGTGTGT GGGGTGGGCA 480
140
141 CATTGATCTG GGATCGGGCC TGAGGTTTGC AGCATTTAGA CCCTGCATTT ATAGCATACG 540
142
143 GTATGATATT GCAGCTTATA TTCATCCATG CCCTGTACCT GTGCACGTTG GAACTTTTAT 600
144
145 TACTGGGGTT TTTCTTAGAA AGAAATTGTA TTATCAACAG CATTTTCAAG CAGTTAGTTC 660
146
147 CTTGATGATC ATCACAATCA TCATCATCTT CATTCTCATT TTTTAAATCA ACGAGTACTT 720
148
149 CAAGATCTGA ATTTGGCTTG TTTGGAGCAT CTCCTCTGCT CCCCTGGGGA GTCTGGGCAC 780
150
151 AGTCAGGTGG TGGCTTAACA GGGAGCTGGA AAAAGTGTC TTTCTTCAGA CACTGAGGCT 840
152

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153	CCCCGAGCAG	CGCCCCCTCCC	AAGAGGAAGG	CCTCTGTGGC	ACTCAGATAC	CGACTGGGGC	900
154							
155	TGGGGCGCCG	CCACTGCCTT	CACCTCCTCT	TTCAAACCTC	AGTGATTGGC	TCTGTGGGCT	960
156							
157	CCATGTAGAA	GCCACTATTA	CTGGGACTGT	CTCAGAGACC	CCTCTCCCAG	CTATTCCCTAC	1020
158							
159	TCTCTCCCCG	ACTCCGAGAG	CATGCTTAAT	CTTGCTTCTG	CTTCTCATTT	CTGTAGCCTG	1080
160							
161	ATCAGCGCCG	CACCAGCCGG	GAAGAGGGTG	ATTGCTGGGG	CTCGTGCCCT	GCATCCCTCT	1140
162							
163	CCTCCCAGGG	CCTGCCCCAC	AGCTCGGGCC	CTCTGTGAGA	TCCGTCTTTG	GCCTCCTCCA	1200
164							
165	GAATGGAGCT	GGCCCTCTCC	TGGGGATGTG	TAATGGTCCC	CCTGCTTACC	CGCAAAAGAC	1260
166							
167	AAGTCTTTAC	AGAATCAAAT	GCAATTTTAA	ATCTGAGAGC	TCGCTTGAGT	GACTGGGTTT	1320
168							
169	GTGATTGCCT	CTGAAGCCTA	TGTATGCCAT	GGAGGCACTA	ACAAACTCTG	AGGTTTCCGA	1380
170							
171	AATCAGAAGC	GAAAAAATCA	GTGAATAAAC	CATCATCTTG	CCACTACCCC	CTCCTGAAGC	1440
172							
173	CACAGCAGGG	GTTCAGGTTC	CAATCAGAAC	TGTTGGCAAG	GTGACATTTT	CATGCATAGA	1500
174							
175	TGCGATCCAC	AGAAGGTCCT	GGTGGTATTT	GTAACTTTTT	GCAAGGCATT	TTTTTATATA	1560
176							
177	TATTTTTGTG	CACATTTTTT	TTTACGATTC	TTTAGAAAAC	AAATGTATTT	CAAAATATAT	1620
178							
179	TTATAGTCGA	ACAAGTCATA	TATATGAATG	AGAGCCATAT	GAATGTCAGT	AGTTTATACT	1680
180							
181	TCTCTATTAT	CTCAAACTAC	TGGCAATTTG	TAAAGAAATA	TATATGATAT	ATAAATGTGA	1740
182							
183	TTGCAGCTTT	TCAATGTTAG	CCACAGTGTA	TTTTTTCACT	TGTACTAAAA	TTGTATCAAA	1800
184							
185	TGTGACATTA	TATGCACTAG	CAATAAAATG	CTAATTGTTT	CATGGTAAAA	AAAAAA	1856

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3526 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

201							
202	TCTCCGTCAG	CCGCATTGCC	CGCTCGGCGT	CCGGCCCCCG	ACCCGTGCTC	GTCCGCCCCG	60
203							
204	CCGCCCCGCC	GCCCGCGCCA	TGAACGCCAA	GGTCGTGGTC	GTGCTGGTCC	TCGTGCTGAC	120
205							

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206	CGCGCTCTGC	CTCAGCGACG	GGAAGCCCGT	CAGCCTGAGC	TACAGATGCC	CATGCCGATT	180
207							
208	CTTCGAAAAGC	CATGTTGCCA	GAGCCAACGT	CAAGCATCTC	AAAATTCTCA	ACACTCCAAA	240
209							
210	CTGTGCCCTT	CAGATTGTAG	CCCGGCTGAA	GAACAACAAC	AGACAAGTGT	GCATTGACCC	300
211							
212	GAAGCTAAAG	TGGATTCAGG	AGTACCCTGA	GAAAGCTTTA	AACAAGAGGT	TCAAGATGTG	360
213							
214	AGAGGGTCAC	ACGCCTGAGG	AACCCCTTACA	GTAGGAGCCC	AGCTCTGAAA	CCAGTGTTAG	420
215							
216	GGAAGGGCCT	GCCACAGCCT	CCCCTGCCAG	GGCAGCGCCC	CAGGCATTGC	CAAGGGCTTT	480
217							
218	GTTTTGCACA	CTTTGCCATA	TTTTCACCAT	TTGATTATGT	AGCAAAATAC	ATGACATTTA	540
219							
220	TTTTTCATTT	AGTTTGATTA	TTCAGTGTCA	CTGGCGACAC	GTAGCAGCTT	AGACTAAGGC	600
221							
222	CATTATTGTA	CTTGCCCTAT	TAGAGTGTCT	TTCCACGGAG	CCACTCCTCT	GACTCAGGGC	660
223							
224	TCCTGGGTTT	TGTATTCTCT	GAGCTGTGCA	GGTGGGGAGA	CTGGGCTGAG	GGAGCCTGGC	720
225							
226	CCCATGGTCA	GCCCTAGGGT	GGAGAGCCAC	CAAGAGGGAC	GCCTGGGGGT	GCCAGGACCA	780
227							
228	GTCAACCTGG	GCAAAGCCTA	GTGAAGGCTT	CTCTCTGTGG	GATGGGATGG	TGGAGGGCCA	840
229							
230	CATGGGAGGC	TCACCCCTT	CTCCATCCAC	ATGGGAGCCG	GGTCTGCCTC	TTCTGGGAGG	900
231							
232	GCAGCAGGGC	TACCCCTGAGC	TGAGGCAGCA	GTGTGAGGCC	AGGGCAGAGT	GAGACCCAGC	960
233							
234	CCTCATCCCG	AGCACCTCCA	CATCCTCCAC	GTTCTGCTCA	TCATTCTCTG	TCTCATCCAT	1020
235							
236	CATCATGTGT	GTCCACGACT	GTCTCCATGG	CCCCGCAAAA	GGA CTCTCAG	GACCAAAGCT	1080
237							
238	TTCATGTAAA	CTGTGCACCA	AGCAGGAAAT	GAAAATGTCT	TGTGTTACCT	GAAAACACTG	1140
239							
240	TGCACATCTG	TGTCTTGTGT	GGAATATTGT	CCATTGTCCA	ATCCTATGTT	TTTGTTCAAA	1200
241							
242	GCCAGCGTCC	TCCTCTGTGA	CCAATGTCTT	GATGCATGCA	CTGTTCCCCC	TGTGCAGCCG	1260
243							
244	CTGAGCGAGG	AGATGCTCCT	TGGGCCCTTT	GAGTGCAGTC	CTGATCAGAG	CCGTGGTCCT	1320
245							
246	TTGGGGTGAA	CTACCTTGGT	TCCCCCACTG	ATCACAAAAA	CATGGTGGGT	CCATGGGCAG	1380
247							
248	AGCCCAAGGG	AATTCGGTGT	GCACCAGGGT	TGACCCAGAG	GGATTGCTGC	CCCATCAGTG	1440
249							
250	CTCCCTCACA	TGTCAGTACC	TTCAAACCTAG	GGCCAAGCCC	AGCACTGCTT	GAGGAAAACA	1500
251							
252	AGCATTCACA	ACTTGTTTTT	GGTTTTTAAA	ACCCAGTCCA	CAAAATAACC	AATCCTGGAC	1560
253							
254	ATGAAGATTC	TTTCCCAATT	CACATCTAAC	CTCATCTTCT	TCACCATTTG	GCAATGCCAT	1620
255							
256	CATCTCCTGC	CTTCCTCCTG	GGCCCTCTCT	GCTCTGCGTG	TCACCTGTGC	TTCGGGCCCT	1680
257							
258	TCCCACAGGA	CATTTCTCTA	AGAGAACAAAT	GTGCTATGTG	AAGAGTAAGT	CAACCTGCCCT	1740

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SEQUENCE VERIFICATION REPORT
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Original Text